

CLAIMS:

1. A power transmission chain, comprising:

a plurality of link units aligned in a traveling direction of chain; and

a plurality of connecting members that link the plurality of link units to one another, wherein:

each of the link units includes a plurality of links aligned in a width direction of chain that is orthogonal to the traveling direction of chain;

each of the connecting members includes first and second power transmission members;

either one of the first and second power transmission members moves relatively with respect to the other power transmission member accompanying bending of the chain while coming into contact with the other power transmission member in a contact state including at least one of rolling contact and sliding contact; and

the number of the links in each of the link units is equal and an even number.

2. The power transmission chain according to Claim 1, wherein:

at least one of the link units includes two links that are disposed to be stacked on each other so as to come into

contact with each other.

3. The power transmission chain according to Claim 1, wherein:

at least one of the link units includes two links that are disposed to be stacked on each other so as to come into contact with each other at a center position of the chain in the width direction of chain.

4. The power transmission chain according to Claim 1, wherein:

at least one of the link units includes two pairs of links disposed, respectively, at a pair of end portions of the chain in the width direction of chain, and each of the pairs of links are stacked on each other so as to come into contact with each other.

5. The power transmission chain according to Claim 1, wherein:

the links of at least one of the link units are disposed symmetrically about a center position of the chain in the width direction of chain.

6. The power transmission chain according to Claim 1, wherein:

each of the links of each of the link units includes first and second through-holes for corresponding connecting members to be inserted therein; and

the first and second through-holes in each of the links are aligned in the traveling direction of chain.

7. The power transmission chain according to Claim 6, wherein:

a corresponding first power transmission member is fit into the first through-hole in each of the links in a manner so as to enable relative movements and a corresponding second power transmission member is fit therein in a manner so as to inhibit relative movements; and

the corresponding second power transmission member is fit into the second through-hole in each of the links in a manner so as to enable relative movements and the corresponding first power transmission member is fit therein in a manner so as to inhibit relative movements.

8. The power transmission chain according to Claim 6, wherein:

each of the links of each of the link units includes a communication groove that allows the first and second through-holes to communicate with each other.

9. The power transmission chain according to Claim 1,
wherein:

movement trajectory of a contact point of the first and
second power transmission members of each of the connecting
members shapes an involute curve.

10. A power transmission device, comprising:

a pair of pulleys each having a pair of circular conical
sheave surfaces that oppose each other,

wherein power is transmitted between the pair of pulleys
via the power transmission chain according to any one of Claims
1 through 9.